

Description

**METHOD AND APPARATUS FOR TRANSMITTING POSITION INFORMATION ON A
DIGITAL MAP**

This patent application is a continuation of U.S. Serial

MYM 5 No. 10/169,639 filed July 3, 2002, now U.S. Patent No. 6,662,101 which is
a 371 of PCT/JP02/00601 filed January 28, 2002.

<Technical Field>

The present invention relates to a method for transmitting position information on a digital map and apparatus for implementing the method, and in particular to a method and apparatus for accurately 10 transmitting position information on a digital map by using only a small amount of data.

<Background of the Invention>

In recent years, the number of vehicles that have on-board 15 navigation apparatus has been increasing rapidly. The on-board navigation apparatus maintains a digital map database and is capable of displaying traffic congestion and traffic accident positions on the map based on traffic congestion information and traffic accident information provided by a traffic information center as 20 well as performing a route search using conditions including the aforementioned information.

In Japan, digital map databases are prepared by several companies. The problem is that map data contains errors due to the different base maps and digitizing technologies. The error